

## Patent Abstracts of Japan

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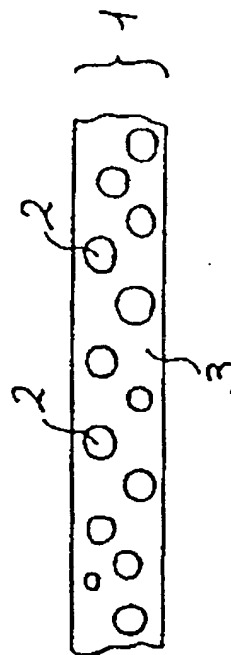
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APPLICANT : TOYO TIRE & RUBBER CO LTD;

INVENTOR : ANZAI HIROYUKI;

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TITLE : MOISTURE PERMEABLE FOAMED  
SHEET AND PREPARATION THEREOF



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**ABSTRACT :** PURPOSE: To provide a foamed sheet excellent in moisture permeability and anti-staining properties by uniformly mixing a heat-expansible microcapsule formed by encapsulating a gasifiable liquid with a thermoplastic resin, a resin having moisture permeability and, if necessary, a moisture absorbent and applying the obtained compound to the surface of a base material to foam the compound under heating.

CONSTITUTION: As a moisture permeable resin, there is no special limit if any resin soluble in a solvent, hard to swell in water and having film forming capacity is used. A heat-expansible microcapsule to be used is a microglobule formed by encapsulating a gasifiable liquid by a thermoplastic resin and, when it is heated to proper temp, the encapsulated liquid is gasified and the microcapsule is expanded as a whole by the pressure thereof to give a gas bubble increased in its volume. A compound prepared by mixing various compounding ingredients is continuously applied to a base material such as release paper in a definite thickness and heated to predetermined temp. to expand and foam the microcapsule. By this method, a moisture permeable resin foam layer is formed.

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